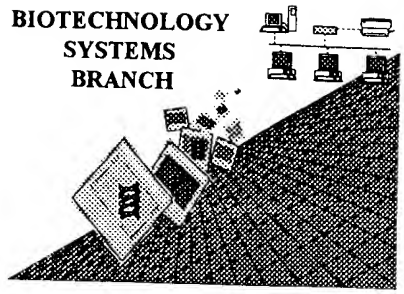
Johnson

RAW SEQUENCE LISTING ERROR REPORT



FILE COPY

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 08/892,695

Art Unit / Team No. : 1642

Date Processed by STIC: 8/26/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER: 08/892,695

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".
2 _____	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped " down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".
3 _____	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
4 _____	Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
5 _____	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6 _____	Variable Length	Sequence(s) ____ contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
7 _____	PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence.
8 _____	Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence: **(2) INFORMATION FOR SEQ ID NO:X:** **(I) SEQUENCE CHARACTERISTICS:**(Do not insert any headings under "SEQUENCE CHARACTERISTICS") **(xI) SEQUENCE DESCRIPTION:SEQ ID NO:X:** **This sequence is intentionally skipped** Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9 _____	Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence. **<210> sequence id number** **<400> sequence id number** **000**
10 ✓	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or **Xaa**, and which residue n or **Xaa** represents.
11 _____	Use of <213>Organism (NEW RULES)	Sequence(s) _____ are missing this mandatory field or its response.
12 _____	Use of <220>Feature (NEW RULES)	Sequence(s) ____ are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" **Please explain source of genetic material in <220> to <223> section.** (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
13 _____	PatentIn ver. 2.0 "bug"	**Please do not use "Copy to Disk" function of PatentIn version 2.0.** This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

Johnson

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION **US/08/892,695**

DATE: 08/26/1999
TIME: 11:47:11

Input Set: **H892695.RAW**

This Raw Listing contains the General Information Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

RP 53

<110> APPLICANT: Gray, Joe W
Collins, Collin
Hwang, Soo In
Godfrey, Tony
Kowel, David
Rommens, Johanna
<120> TITLE OF INVENTION: GENES FROM THE 20Q13 AMPLICON AND THEIR USES
<130> FILE REFERENCE: 2500.124US3
<140> CURRENT APPLICATION NUMBER: US/08/892,695
<141> CURRENT FILING DATE: 1997-07-15
<150> EARLIER APPLICATION NUMBER: 08/785,532
<151> EARLIER FILING DATE: 1997-01-17
<150> EARLIER APPLICATION NUMBER: 08/731,499
<151> EARLIER FILING DATE: 1996-10-16
<150> EARLIER APPLICATION NUMBER: 08/680,395
<151> EARLIER FILING DATE: 1996-07-15
<160> NUMBER OF SEQ ID NOS: 59
<170> SOFTWARE: PatentIn Ver. 2.0
<210> SEQ ID NO 1
<211> LENGTH: 3000
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:3bf4
<400> SEQUENCE: 1

ccgccggccg gggcgcctgg ctgcactcag cgccggagcc gggagctagc ggccgccgcc 60
atgtcccacc agaccggcat ccaagcaagt gaagatgtta aagagatctt tgccagagcc 120
agaaatggaa agtacagact tctgaaaata tctattgaaa atgagcaact tgtgattgga 180
tcatatagtc agccttcaga ttcctgggat aaggattatg attcctttgt tttacccctg 240
ttggaggaca aacaaccatg ctatatatta ttcaggttag attctcagaa tgcccaggga 300
tatgaatgga tattcattgc atggtctcca gatcattctc atgttcgtca aaaaatgttg 360
tatgcagcaa caagagcaac tctgaagaag gaatttggag gtggccacat taaagatgaa 420
gtatttggaa cagtaaagga agatgtatca ttacatggat ataaaaaata cttgctgtca 480
caatcttccc ctgccccact gactgcagct gaggaagaac tacgacagat taaaatcaat 540
gaggtacaga ctgacgtggg tgtggacact aagcatcaaa cactacaagg agtagcattt 600
cccatttctc gagaagcctt tcaggctttg gaaaaattga ataatagaca gctcaactat 660
gtgcagttgg aaatagatat aaaaaatgaa attataattt tggccaacac aacaaataca 720
gaactgaaag atttgccaaa gaggattccc aaggattcag ctcgttacca tttctttctg 780
tataaacatt cccatgaagg agactattta gagtccatag tttttattta ttcaatgcct 840
ggatacacat gcagtataag agagcggatg ctgtattcta gctgcaagag ccgtctgcta 900
gaaattgtag aaagacaact acaaatggat gtaattagaa agatcgagat agacaatggg 960
gatgagttga ctgcagactt cctttatgaa gaagtacatc ccaagcagca tgcacacaag 1020
caaagttttg caaaaccaaa aggtcctgca ggaaaaagag gaattcgaag actaattagg 1080
ggcccagcgg aaactgaagc tactactgat taaagtcatc acattaaaca ttgtaatact 1140

agttttttaa aagtccagct tttagtacag gagaactgaa atcattccat gttgatataa 1200
agtagggaaa aaaattgtac tttttggaaa atagcacttt tcacttctgt gtgtttttaa 1260
aattaatgtt atagaagact catgatttct atttttgagt taaagctaga aaagggttca 1320
acataatgtt taattttgtc acactgtttt catagcgttg attccacact tcaaatactt 1380
cttaaaattt tatacagttg ggccagttct agaaagtctg atgtctcaaa gggtaaactt 1440
actactttct tgtgggacag aaagacctta aaatattcat attacttaat gaatatgtta 1500
aggaccaggc tagagtattt tctaagctgg aaacttagtg tgccttggaa aagccgcaag 1560
ttgcttactc cgagtagctg tgctagctct gtcagactgt aggatcatgt ctgcaacttt 1620
tagaaatagt gctttatatt gcagcagtct tttatatttg actttttttt aatagcatta 1680
aaattgcaga tcagctcact ctgaaacttt aagggtacca gatattttct atactgcagg 1740
atttctgatg acattgaaag actttaaaca gccttagtaa attatctttc taatgctctg 1800
tgaggccaaa catttatgtt cagattgaaa tttaaattaa tatcattcaa aaggaaacaa 1860
aaaatgttga gttttaaaaa tcaggattga ctttttttctc caaaaccata catttatggg 1920
caaattgtgt tctttatcac ttccgagcaa atactcagat ttaaaattac tttaaagtcc 1980
tggtacttaa caggctaacg tagataaaca ccttaataat ctcagttaat actgtatttc 2040
aaaacacatt taactgtttt ctaatgcttt gcattatcag ttacaaccta gagagatttt 2100
gagcctcata tttctttgat acttgaaata gagggagcta gaacacttaa tgtttaatct 2160
gttaaacctg ctgcaagagc cataactttg aggcattttc taaatgaact gtggggatcc 2220
aggatttgta atttcttgat ctaaacttta tgctgcataa atcacttatc ggaaatgcac 2280
atttcatagt gtgaagcact catttctaaa ccttattatc taaggtaata tatgcacctt 2340
tcagaaattt gtgttcgagt aagtaaagca tattagaata attgtgggtt gacagatttt 2400
taaaatagaa tttagagtat ttggggtttt gtttgtttac aaataatcag actataatat 2460
ttaaacatgc aaaataactg acaataatgt tgcacttgtt tactaaagat ataagttgtt 2520
ccatgggtgt acacgtagac agacacacat acacccaaat tattgcatta agaatcctgg 2580
agcagaccat agctgaagct gttattttca gtcaggaaga ctacctgtca tgaaggtata 2640
aaataattta gaagtgaatg tttttctgta ccatctatgt gcaattatac tctaaattcc 2700
actacactac attaaagtaa atggacattc cagaatatag atgtgattat agtcttaaac 2760
taattattat taaaccaatg attgctgaaa atcagtgatg catttgttat agagtataac 2820
tcatcgttta cagtatgttt tagttggcag tatcatacct agatggtgaa taacatattc 2880
ccagtaaatt tatatagcag tgaagaatta catgccttct ggtggacatt ttataagtgc 2940
attttatatc acaataaaaa ttttttctct ttaaaaaaaa aaaacaagaa aaaaaaaaaa 3000

<210> SEQ ID NO 2
<211> LENGTH: 723
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:1b11
<400> SEQUENCE: 2

tggaagctgt catggttacc gtctctaacg ttggactctt aagaaaatga ttattcctgg 60
tttctagaca ggccaaatgt aattcaccta cgtggcagat taaagaggtg ggcttactag 120
atttgattgg gtattgagca tgctctgaat gacagtcccc aaaaaggacc tcttatccgt 180
tcttcccctt ggggaagggc ttttgccact tccatgtcaa tgtggcagtt gagcttggaa 240
attggtgcgt tgtacaacat aagcattact tctccaagat gtgcctgtgt agaaatggtc 300
atagattcaa aactgtagct actatgtgga caggggggca gcaaggaccc cactttgtaa 360
aacatgtttt gggggaatgt tttgtttttc attttcttat tacctggcaa aataatccag 420
gtggtgtgtg agtcaccagt agagattata aagtccaagg aagtagaatc agccttacaa 480
acagtggacc tcaacgaagg agatgctgca cctgaaccca cwgaagcgaa actcaaaaga 540
gaagaaagca aaccaagaac ctctctgatg rcgtttctca gacaaatggt aagcccctta 600
cttccagtat aggaaaccta agatacctag agcggctttt gggaacaatg ggctcatgcc 660
acaggtagta ggagacataa ttgtagctgg tgtgtatgga atgtgaatgg aatatggatt 720

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/892,695

DATE: 08/26/1999
TIME: 11:47:11

Input Set: H892695.RAW

```
     95          gcg                                                                    723
     96    <210> SEQ ID NO 3
     97    <211> LENGTH: 1507
     98    <212> TYPE: DNA
     99    <213> ORGANISM: Artificial Sequence
    100    <220> FEATURE:
    101    <223> OTHER INFORMATION: Description of Artificial Sequence:cc49
    102    <400> SEQUENCE: 3
    103          gcaggttgct gggattgact tcttgctcaa ttgaaacact cattcaatgg agacaaagag 60
    104          cactaatgct ttgtgctgat tcatatttga atcgaggcat tgggaaccct gtatgccttg 120
    105          tttgtggaaa gaaccagtga caccatcact gagcttccta aaagttcgaa gaagttagag 180
    106          gactatacac tttcttttga acttttataa taaatatttg ctctggtttt ggaacccagg 240
    107          actgttagag ggtgagtgac aggtcttaca gtggccttaa tccaactcca gaaattgccc 300
    108          aacggaactt tgagattata tgcaatcgaa agtgacagga aacatgccaa ctcaatccct 360
    109          cttaatgtac atggatggcc aagagtgatt ggcagctctc ttgccagtcc gatggagatg 420
W-->110          gagatgcctt gtcaatgaaa gggcccnctg ttgtcaattc cgagctacac aaagaaaaaa 480
    111          atgtcaatcc gaatcgaggg gaatatgccc ttggattgca tgttctgcag ccagaccttc 540
    112          acacattcag aagaccttaa taaacatgtc ttaatgcaac accggcctac cctctgtgaa 600
    113          ccagcagttc ttcgggttga agcagagtat ctcagtccgc ttgataaaag tcaagtgcga 660
    114          acagaacctc ccaaggaaaa gaattgcaag gaaaatgaat ttagctgtga ggtatgtggg 720
    115          cagacattta gagtcgcttt tgatgttgag atccacatga gaacacacaa agattctttc 780
    116          acttacgggt gtaacatgtg cggaagaaga ttcaaggagc cttggtttct taaaaatcac 840
    117          atgcggacrc ataatggcaa atcgggggcc agaagcaaac tgcagcaagg cttggagagt 900
    118          agtccagcaa cgatcaacga ggtcgtccag gtgcacgcgg ccgagagcat ctcctctcct 960
    119          tgcaaaatct gcatggtttg tggcttccta tttccaaata aagaaagtct aattgagcac 1020
    120          cgcaaggtgc acaccaaaaa aactgctttc ggtaccagca gcgcgcagac agactctcca 1080
    121          caaggaggaa tgccgtcctc gagggaggac ttcctgcagt tgttcaactt gagaccaaaa 1140
    122          tctcaccctg aaacggggaa gaagcctgtc agatgcatcc ctcagctcga tccgttcacc 1200
    123          accttccagg cttggcakct ggctaccaaa ggaawagttg ccatttgcca agaagtgaag 1260
    124          gaattggggc aagaagggag caccgacaac gacgattcga gttccgagaa ggagcttgga 1320
    125          gaaacaaata agaaccattg tgcaggcctc tcgcaagaga aagagaagtg caaacactcc 1380
    126          cacggcgaag cgccctccgt ggacgcggat cccaagttac ccagtagcaa ggagaagccc 1440
    127          actcactgct ccgagtgcgg caaagctttc agaacctacc accagctggt cttgcactcc 1500
    128          agggtcc                                                                1507
    129    <210> SEQ ID NO 4
    130    <211> LENGTH: 2605
    131    <212> TYPE: DNA
    132    <213> ORGANISM: Artificial Sequence
    133    <220> FEATURE:
    134    <223> OTHER INFORMATION: Description of Artificial Sequence:cc43
    135    <400> SEQUENCE: 4
    136          caagctcgaa attaaccctc actaaaggga acaaaagctg gagctccacc gcggtggcgg 60
    137          ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagct gggctactac 120
    138          gatggcgatg agtttcgagt ggccgtggca gtatcgcttc ccacccttct ttacgttaca 180
    139          accgaatgtg gacactcggc agaagcagct ggccgcctgg tgctcgctgg tcctgtcctt 240
    140          ctgccgcctg cacaaacagt ccagcatgac ggtgatggaa gctcaggaga gcccgctctt 300
    141          caacaacgtc aagctacagc gaaagcttcc tgtggagtcg atccagattg tattagagga 360
    142          actgaggaag aaagggaacc tcgagtggtt ggataagagc aagtccagct tcctgatcat 420
    143          gtggcggagg ccagaagaat gggggaaact catctatcag tgggtttcca ggagtggcca 480
    144          gaacaactcc gtctttaccc tgtatgaact gactaatggg gaagacacag aggatgagga 540
```

gttccacggg ctggatgaag ccactctact gcgggctctg caggccctac agcaggagca 600
caaggccgag atcatcactg tcagcgatgg ccgaggcgtc aagttcttct agcagggacc 660
tgtctccctt tacttcttac ctcccacctt tccagggctt tcaaaaggag acagacccag 720
tgtcccccaa agactggatc tgtgactcca ccagactcaa aaggactcca gtcctgaagg 780
ctgggacctg gggatgggtt tctcacaccc catatgtctg tcccttggat agggtgaggc 840
tgaagcacca gggagaaaat atgtgcttct tctcgcccta cctcctttcc catcctagac 900
tgtccttgag ccagggtctg taaacctgac actttatatg tgttcacaca tgtaagtaca 960
tacacacatg cgcctgcagc acatgcttct gtctcctcct cctcccaccc ctttagctgc 1020
tgttgcctcc cttctcaggc tggtgctgga tccttcctag gggatggggg aagccctggc 1080
tgcaggcagc cttccaggca atatgaagat aggaggccca cgggcctggc agtgagaggt 1140
gtggccccac accgatttat gatattaaaa tctcaactcc caaaaaaaaa aaaaaaaaaa 1200
ctgagactag ttctctctct ctcgagaact agtctcgagt ttttttttt ttttttttt 1260
ttttttttt ttttttttg gctttaagga tttatttatt gtttcctctt tacagtgtcc 1320
acttttctct acttaatact actttccagt ctcagaagcc cagagggaaa aaaaaaagac 1380
catgaatctt cctctcccag attaaagtac acactttgga aaacagattg gaaaaccttt 1440
ctgaaaaaag ttgactgaaa ctccaaacca acatgccata ttgttgatgt tgctcatgaa 1500
aattgttaaa aacctgttct agataaagaa cagtctcaag tttttgtaca gcctacacat 1560
agtacaaggg tcccctatga tgattcttct gtaggacgaa ataatgtaat tttttcagtt 1620
tctggtttat aactctctcg atctcagagt tgactgatta aaacacctac tcatgcaaca 1680
gagaataaag cactcatatt tttataaatt atatggacca aactattttg gaaatcttat 1740
ctattggaga cacaatatgc tggactaaag caataattat tttattctca atgtctgtgc 1800
taacctcaat gacttagaat gctttgctat attttgcctc tatgcctcaa ccacactggc 1860
tttcttttag ctcttgaaca agccaaactg cttcctgcct caggaccaga tattttggga 1920
cttctcttaa gaattctatt tccttaattc tttatctggg taacttagtt ttatccaaca 1980
cttcagatcc tgccgtaaaa actcttctta tagaagcctg tcatgacact gtctctcttc 2040
tccaacatac tcaccagcac acatgtagac tagattagaa cctcctgttt ttctttttca 2100
tacttttctc tatcatgctt ccctccatta taatattttt attatgtgtg tgaatgtctg 2160
ccccaagtca gtttcctcac taaactataa actccgtaaa gctgggatcc ttccaatttt 2220
gatcaccact tagtacagta ggaacacagt aaagattcaa ttggtatttg tggaatgaat 2280
gaatgaattg ttttgctagt aaagtctggg ggaacccagg tgagaagagc ctagaaagca 2340
ggtcgaatcc aaggctagat agacttagtg ttactcaaga aagggtagcc tgaaaataaa 2400
ggttcaaatt atagtcaaga atagtcaaga catgggcaag acaagagtgc tgctcgtgcc 2460
gaattcgata tcaagcttat cgataccgtc gacctcgagg gggggcccgg tacccaattc 2520
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga 2580
aaaccctggc gttacccaac ttaat 2605

<210> SEQ ID NO 5
<211> LENGTH: 1288
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:41.1
<400> SEQUENCE: 5

gagggcagcg agaaggagaa accccagccc ctggagccca catctgctct gagcaatggg 60
tgcgccctcg ccaaccacgc cccggccctg ccatgcatca acccactcag cgccctgcag 120
tccgtcctga acaatcactt gggcaaagcc acggagccct tgcgctcacc ttcctgctcc 180
agcccaagtt caagcacaat ttccatgttc cacaagtcga atctcaatgt catggacaag 240
ccggtcttga gtcctgcctc cacaaggtca gccagcgtgt ccaggcgcta cctgtttgag 300
aacagcgatc agcccattga cctgaccaag tccaaaagca agaaagccga gtcctcgcaa 360
gcacaatctt gtatgtcccc acctcagaag cacgctctgt ctgacatcgc cgacatggtc 420
aaagtcctcc ccaaagccac caccccaaag ccagcctcct cctccagggt cccccccatg 480

aagctggaaa tggatgtcag gcgctttgag gatgtctcca gtgaagtctc aactttgcat 540
aaaagaaaag gccggcagtc caactggaat cctcagcatc ttctgattct acaagcccag 600
tttgcctcga gcctcttcca gacatcagag ggcaaatacc tgctgtctga tctgggccca 660
caagagcgta tgcaaatctc taagtttacg ggactctcaa tgaccactat cagtcactgg 720
ctggccaacg tcaagtacca gcttaggaaa acgggcggga caaaatttct gaaaaacatg 780
gacaaaggcc accccatctt ttattgcagt gactgtgcct cccagttcag aaccccttct 840
acctacatca gtcacttaga atctcacctg ggtttccaaa tgaaggacat gacccgcttg 900
tcagtggacc agcaaagcaa ggtggagcaa gagatctccc gggtatcgtc ggctcagagg 960
tctccagaaa caatagctgc cgaagaggac acagactcta aattcaagtg taagttgtgc 1020
tgtcggacat ttgtgagcaa acatgcggta aaactccacc taagcaaaac gcacagcaag 1080
tcacccgaac accattcaca gtttgtaaca gacgtggatg aagaatagct ctgcaggacg 1140
aatgccttag tttccacttt ccagcctgga tcccctcaca ctgaaccctt cttcgttgca 1200
ccatcctgct tctgacattg aactcattga actcctcctg acaccctggc tctgagaaga 1260
ctgccaaaaa aaaaaaaaaa aaaaattc 1288

<210> SEQ ID NO 6
<211> LENGTH: 2821
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:GCAP
<400> SEQUENCE: 6

atcctaagac gcacagcctg ggaagccagc actggggaag tggtgctgag ggatgtgggt 60
cactggggtg aaggtggagc tttcagggtc tcccgtcaat gcagctgagt tttctttggc 120
agggaattta ccagctgaag aaagcctgcc ggcgagagct acaaactgag caaggccagc 180
tgctcacacc cgaggaggtc gtggacagga tcttcctcct ggtggatgag aatggagatg 240
gtaagagggg cagagatggg gagagtgctg tccactctgc atcatcgcca ctttctggcc 300
gcacgtcctt gggcaaggcc ctccaccttc caaccctggg gtcctcatct gtgagaaggc 360
tgtggagaag atgtcatgaa ctaacaaagg gactcatgag cacgtgtttg taggagtgac 420
taaaagtcct acaggagttg ctgatggagg ccaggcacgc agaatagaaa gaataggaac 480
tttggagtca ggcagggagt gatatattga gcttctcgtc ctagtctcaa tttcctcatc 540
tggaaaatgg ggataataat agtggttgag aggaatgaat aggataatgt gtttaagagc 600
aggcataggg tagacctcca ttcaggctgc ttgggctttc ctccctgtag cccaaagccc 660
agcctcaggg ctatgtgggg agagagctgg cttggaatac acacttgagc cctccagctc 720
tctcagctcc acccagcatt tccgtggtac catgcgcaaa agtaaaactt caattcatca 780
gcaaagaaag ccccttaaag gtggcaggag actcctggag attcagacac ctgacaagcc 840
gcaagcttga ggtctgagac tgcaggatag ttggcataag acgtgtaggc gcatcctggg 900
agcgaggtct ctcctcctgc ccccagaccc aggtctcccc ttcttctaca tgaccacctc 960
tcctcccccc tgctcaggcc agctgtctct gaacgagttt gttgaaggtg cccgtcggga 1020
caagtgggtg atgaagatgc tgcagatgga catgaatccc agcagctggc tcgctcagca 1080
gagacggaaa agtgccatgt tctgaggagt ctggggcccc tccacgactc caggctcacc 1140
caggtttcca gggtagtagg agggtccccc ggctcagcct gctcatgccc actcttcccc 1200
tggtgttgac ttcctggcac cccctgtgca gggctgagtg gggatgggga agggctgctg 1260
ggtttgaagt ggccaacagg gcatagtcca ttttggagga gtccctggga tggtgaaggg 1320
aattcagtta cttttcctgt tcagccgctc ctgggaggac tgtgccttgg ctgggtggtt 1380
gtggggctcc cacagtttct gggtgttctc agttggaagc aagagccaac tgaggggtga 1440
gggtcccaca gaccaaatca gaaatgagaa cacaaagact ggtaggaggc aggggtggga 1500
gggtgttgag actgaagaaa aggcaggagt tgccgggcac ggtggctcac gcctgtaatc 1560
ccagcacttt gggaggccga ggcgggcaga tcacgaggtc aggagatcga gaccatcctg 1620
gctaacacgg ggtgaaaccc cgtctctact aaaaatacaa aaaatcagcc gggtgaggtg 1680
gcgggcgcct gtagtcccag ctactcagga ggctgaggca agagaatggc gtgaacccca 1740

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION **US/08/892,695**

DATE: 08/26/1999
TIME: 11:47:11

Input Set: **H892695.RAW**

Line	?	Error/Warning	Original Text
110	W	"N" or "Xaa" used: Feature required	gagatgcctt gtcaatgaaa gggcccnctg ttgtcaat
286	W	"N" or "Xaa" used: Feature required	ggggtaggga gggganagtt aacctgctgg ctgtgant
299	W	"N" or "Xaa" used: Feature required	gaaatcagaa gtttaatatg acacaattaa atatattt
306	W	"N" or "Xaa" used: Feature required	tggtcaatga agtgaattgt cctatttcng ggggt
577	W	"N" or "Xaa" used: Feature required	Cys Gly Arg Xaa Xaa Xaa Xaa Pro Trp Phe L
761	W	"N" or "Xaa" used: Feature required	ggcttaccac nactgccgtt aagtcgtgtn aagtcacc
762	W	"N" or "Xaa" used: Feature required	ttctgcaaag gcaggagnca ctttctctcc agtgctca
764	W	"N" or "Xaa" used: Feature required	ggtgatattg naacatggta gggctgaccg tggctgtg
765	W	"N" or "Xaa" used: Feature required	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnn
766	W	"N" or "Xaa" used: Feature required	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccca
771	W	"N" or "Xaa" used: Feature required	taacaaaaat ttattggacc ccacacacnn nnnnnnnn
772	W	"N" or "Xaa" used: Feature required	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnn
773	W	"N" or "Xaa" used: Feature required	nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnctct
820	W	"N" or "Xaa" used: Feature required	tncaatatca ccgcagatgg cgagccttta ggccatgt